No.



8300003

THE UNITED STRATES OF ANTERION

TO ALL TO WHOM THESE PRESENTS SHALL COME;
Sluis & Groot Research

Williams, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it. Importing it, or exporting it, or using it in producing a hybrid or different ty therefrom, to the extent provided by the Plant Variety Protection Act 1.542, as amended, 7 u.s.c. 2321 et seq.)

CAULIFLOWER

'White Fox'

In Testimony Winerrot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 27th day of February in the year of our Lord one thousand nine hundred and eighty-four.

John R Block

Secretary of Agriculture

Allest.

Kennell Hewan

Plant Variety Protection Office Grain Division

Agricultural Marketing Service

	UNITED STATES DEPARTME AGRICULTURAL MARK LIVESTOCK, POULTRY, GRA	ETING SERVICE		***	FORM APPR OMB NO. 40	R3822	
AP	PLICATION FOR PLANT VARIE			No certificate for pla be issued unless a co has been received (5 l	mpleted applicatio	n may	
18.	TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAM	E	FOR OFFICIAL USE ONLY			
	SĞ 109	White Fox	·	PV NUMBER	800003	<u> </u>	
2.	KIND NAME	3. GENUS AND SPE	cies name eracea L. con-	FILING DATE 10/19/82	11:30	A.M.	
	Cauliflower	į.	s L) Alef. var.	FEE RECEIVED	DATE	K.M.	
4.	FAMILY NAME (BOTANICAL)	5. DATE OF DETER		500. 00	10/19/	82	
	Cruciferae	January 19	76	\$ 250.00	1/11/	84	
6. .S'Li	NAME OF APPLICANT(S)	7. ADDRESS (Street Code)	t and No. or R.F.D. No.,	City, State, and ZIP	8. TELEPHONE . CODE AND N		
	Koninklijke Zaadteelt en Zaadhandel Sluis & Groot	P.O.Box 13			CODE AND N	DIVIDEN	
	B.V. P45 9/23/83	1600 AA En	khuizen, Nether	lands	02280-138	38	
9.	IF THE NAMED APPLICANT IS NOT A PE ORGANIZATION: (Corporation, partnersh	RSON, FORM OF	10. IF INCORPORAT	ED, GIVE STATE AND	11. DATE OF IN	COR-	
	Corporation		Netherlands		1867		
12.	NAME AND MAILING ADDRESS OF APP	LICANT REPRESENTA	L ATIVE(S), IF ANY, TO S	SERVE IN THIS APPLIC	1	EIVE	
·)	Stan Rollin, Seed Consulta	ant, 6802 Orem	Drive, Laurel,	MD 20810	•		
13.	CHECK BOX BELOW FOR EACH ATTACH	MENT SUBMITTED:					
	13A. Exhibit A, Origin and Bree	eding History of the	Variety (See Section 3	i 2 of the Plant Variety	v Protection Act.)	
	13B. Exhibit B, Novelty Statem			,	, , , , , , , , , , , , , , , , , , , ,	•	
		•					
	13C. Exhibit C, Objective Descr	iption of the Variety	· /B	m1			
	·	-	(Request Jorm from	Plant Variety Protects	ion Office.)		
	13D. Exhibit D, Additional Des	•		Plant Variety Protect	ion Office.)		
14a,	DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answer	cription of the Varie	ty. IETY BE SOLD BY VAI			TIFIED	
14a, 14b.	DOES THE APPLICANT(S) SPECIFY THAT SEED? (See Section 83(a). (If "Yes," answer DOES THE APPLICANT(S) SPECIFY THAT	cription of the Varies T SEED OF THIS VAR Per 14B and 14C below.) T THIS VARIETY BE	IETY BE SOLD BY VAI YES 14c. IF "YES," TO 14	RIETY NAME ONLY AS NO B, HOW MANY GENER	A CLASS OF CER		
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FORM GR 470 (1-78)

(SIGNATURE OF APPLICANT)



Exhibit A

Origin and Breeding History of the Variety - Cauliflower White Fox 830003

The original material is based on a crossing between "Wintercauliflower", "Flora Blanca" and "Alpha" received from Wageningen in 1968.

Since 1968, the breeding department has worked with group and line selection within the early group.

An acceptable standard of homogeneity has been obtained. No variants beyond the percentages shown in the attached table have been found.

In 1976 the variety was determined to be uniform and stable.



Attachment - Exhibit A

Cauliflower

White Fox

830003

	August	800 plants	s total/year	4 fields average/year
1973	small p	olants, light green	colored off types	0,125%
	late, p	petioled plants		0,125%
1974	small p	plants, light green	colored off types	0,250%
	late, p	petioled plants		0
1975	small p	olants, light green	colored off types	0
	late, p	etioled plants		0,125%

8300003

13 B Exhibit B

Novelty Statement

Cauliflower

White Fox

White Fox belongs to the late summer/early autumn varieties and resembles most the variety White Summer, from which it differs by:

- 1. The plant is 1 cm higher than White Summer.
- 2. Has a more broad leaf of 3-4 cm.
- 3. Grows less erect.
- 4. The curd has more relief and is 1 cm higher.
- 5. Better self wrapping.
- 6. The leaf is more blond.
- 7. 2 days later in maturity.

Exhibit B Novelty Statement Cauliflower White Fox 830003 "White Fox" is most similar to "White Summer" except as follows: annex to point 1 of Exhibit B

"The plant is 2 cm higher than White Summer"

1980

Sowing : 2nd June 1980. 3 repetitions. 48 plants/object.

Readings: 1st September 1980

Wh:	ite	Summer			Wh:	ite Fox			
27	cm	10	x		30	cm	31	x	
28	cm	30	x		31	cm	1.7	x	1st repetition
29	cm	8	х					-	
26	cm	5	х		28	cm	7	x	•
27	cm	11	x		29	cm	8	x	
28	cm	20	х		30	cm	25	x	2nd repetition
29	cm	12	х		31	cm	8	x	
									•
27	cm	15	x		29	cm	13	x	
28	cm	> 30	х	*	30	cm	28	x	3rd repetition
29	cm	3	x		31	cm	6	x	
		·	*	e T	32	cm	1	x	

1981

Sowing : 3rd June 1981. 2 repetitions. 48 plants/object.

Readings: 2nd September 1981

White Summer			White Fox	White Fox					
28. cm	41 x		29 cm	16 x					
29 cm	6 x		30 cm	29 x	1st repetition				
30 cm	1 x		31 cm	3 x					



cauliflower White Fox 830003 annex to point 1 of Exhibit B

White Summer			White Fox	White Fox				
27 cm	4 x		28 cm	6 x				
28 cm	25 x		29 cm	12 x	2nd repetition			
29 cm	11 x		30 cm	30 x				
30 cm	8 x							

1982

Sowing : 4th June 1982. 2 repetitions. 48 plants/object.

Readings: 3rd September 1982

White Summer	White Fox	White Fox					
26 cm 2 x	29 cm 12 x						
27 cm 1 x	30 cm 34 x	1st repetition					
28 cm 40 x	31 cm 2 x	-					
29 cm 5 x							
27 cm 18 x	30 cm 42 x						
28 cm 25 x	31 cm 36xx	2nd repetition					
20 cm							

Exhibit B Novelty Statement Cauliflower White Fox 830003

annex to point 2 of Exhibit B

"White Fox has a more broad leaf of 3-4 cm than White Summer"

1980

Sowing : 2nd June 1980. 3 repetitions. 48 plants/object.

Readings: 1st September 1980

White Summ	er	White Fox			
25 cm	11 x	28 cm	4 x		
26 cm	30 x	29 cm	27 x	1st repetition	
27 cm	7 x	30 cm	17 x		
24 cm	12 x	27 cm	7 x		
25 cm	8 x	28 cm	12 x	2nd repetition	
26 cm	28 x	29 cm	29 x		
25 cm	6 x	28 cm	13 x		
26 cm	24 x	29 cm	28 x	3rd repetition	
27 cm	12 x	30 cm	7 x		
28 cm	6 x				

1981

Sowing : 3rd June 1981. 2 repetitions. 48 plants/object

Readings: 2nd September 1981

White Su	mmer		White Fox		
25 cm	12 x	•	28 cm	17 x	
26 cm	26 x		29 cm	19 x	1st repetition
27 cm	10 x		30 cm	8 x	
			31 cm	4 x	



cauliflower White Fox 830003 annex to point 2 of Exhibit B

White Summer			White Fox				
26 cm	29 x		29 cm	20 x			
27 cm	11 x		30 cm	24 x	2nd repetition		
28 cm	x 8		31 cm	4 x			

1982

Sowing : 4th June 1982. 2 repetitions. 48 plants/object.

Readings: 3rd September 1982

White Summer			White For	White Fox			
26 cm	30 x			29 cm	24 x		
27 cm	12 x		:	30 cm	16 x	1st repetition	
28 cm	6 x			31 cm	8 x		
25 cm	14 x			28 cm	12 x		
26 cm	30 x			29 cm	30 x	2nd repetition	
27 cm	4 x	•		30 cm	6 x		



Exhibit B Novelty Statement Cauliflower White Fox 830003

annex to point 4 of Exhibit B

"The curd for White Fox is 1 cm higher than White Summer"

1980

Sowing : 2nd June 1980. 3 repetitions. 48 plants/object.

Readings: 1st September 1980

Wh:	ite Sumr	er	White Fox	White Fox				
	cm	10 x 29 x	10 cm 30 x 11 cm 18 x	1st repetition				
10	cm	9 x						
∂ 8 .	.cm	16 x	_					
9	cm	30 x	10 cm 32 x	2nd repetition				
10	cm	2 x	11 cm 11 x					
9	cm	36 x	10 cm 35 x					
10	cm	12 x	11 cm 13 x	3rd repetition				

1981

Sowing 3: 3rd June 1981. 2 repetitions. 48 plants/object.

Readings: 2nd September 1981

White Summer			White Fox							
2::8	cm.	13	х	9	cm	14	x			
9	cm	27	x	10	cm	31	x	1st	t repetition	n
10	cm	8	x	11	cm	3	x			



Cauliflower White Fox 830003 annex to point 4 of Exhibit B

White Summer		White I	White Fox			
9 cm	28 x	9 cm	5 x			
10 cm	14 x	10 cm	36 x	2nd repetition		
11 cm	6 x	11 cm	7 x			

1982

Sowing: 4th June 1982. 2 repetitions. 48 plants/object.

Readings: 3rd September 1982

White Summer		White Fox
8 cm	7 x	9 cm 5 x
9 cm	27 x	10 cm 36 x 1st repetition
10 cm	14 x	1.1 cm $7 x$
9 cm	39 x	10 cm 37 x
10 cm	9 x	11 cm 11 x 2nd repetition



Exhibit B

Novelty Statement

Cauliflower White Fox

830003

annex to point 6 of Exhibit B

"The leaf of White Fox is more blond than White Summer"

Color chart number: White Fox

RHS 136B

White Summer

RHS 137A



Exhibit B

Novelty Statement

Cauliflower White Fox

830003

annex to point 7 of Exhibit B

"White Fox is 2 days later in maturity than White Summer"

1980

Sowing date I 26th May 1980

II 2nd June 1980

100 plants/number 2 repetitions

Number of growing days

50% plants harvest

White Summer I 123 days II 133 days

White Fox I 125 days II 135 days

average 128 days average 130 days

1981 5

Sowing date I 3rd June 1981

II 10th June 1981

100 plants/number

2 repetitions

Number of growing days

50% plants harvest

White Summer I 128 days II 132 days

White Fox I 129 days II 135 days

average 130 days average 132 days

1982

Sowing date I 28th May 1982

II 4th June 1982

100 plants/number 2 repetitions

Number of growing days

50% plants harvest

White Summer I 129 days II 135 days

White Fox I 131 days II 137 days

average 132 days average 134 days FORM GR-470-30 (7-1-74)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF VARIETY CAULIFLOWER (Brassica oleracea var, botrytis)

NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION
Koninklijke Zaadteelt en Zaadhandel Sluis & Gro	white Fox
54UIS & GROOT RESPARCH RUS 9/18/8	
ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Colle)	FOR OFFICIAL USE ONLY
P.O.Box 13,	PVPO NUMBER
1600 AA Enkhuizen, Netherlands	830003
Place the appropriate number that describes the varietal character of the Place a zero in first box (e-s. 0 8 9 or 0 9) when number is either	is variety in the boxes below. her 99 or less or 9 or less.
1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)	
6 = MOST REGIONS 2 = NORTHCENTRAL 3 = NO	RTHEAST 4 = SOUTHEAST 5 = SOUTHWEST
2. SEASON: (Main crop)	
1 = LATE FALL — EARLY WINTER 2 = LA	TE WINTER - EARLY SPRING
	TE SUMMER — EARLY FALL
STANDARY (P	
3. PORTEY: (Days to 50% narvest)	and the second of the second o
1 0 2 FROM TRANSPLANTS	6 NO. DAYS HARVESTING PERIOD
1 3 2 FROM DIRECT SEEDING	
And the second s	
4. PLANT HEIGHT: (At harvest)	
CM. FROM SOIL LINE TO TOP OF CURD	
	1 = EARLY ERFURT 2 = SUPER SNOWBALL A
0 4 CM. TALLER THAN	3 = SNOWBALL Y
	4 = VEITCH AUTUMN GIANT
O 1 CM. SHORTER THAN	5 = OTHER (Specify)
) 5-OTHER (SPECITY)
5. LEAVES:	
2 6 TOTAL NUMBER	7 CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)
2	9 CM. AVERAGE WIDTH AT MID-POINT OF PLANT
1 = STRAIGHT MARGINS 2 = WAVY MARGINS 2	1 = THIN VEINS 2 = THICK VEINS
1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE 3 = EQUALLY SESSILE AND PETIOLATE	
1 = LIGHT GREEN 2 = MEDIUM GREEN	1 = UPRIGHT, EXPOSE CURD
Snowball No. 10) 2-3	2 = INCURVED, PARTIALLY COVER CURD
(Lecerf Group) (November)	3 = COMPETELY COVER CURD (Self blanching)
6. CURD:	
2 O CM. DIAMETER	CM. DEPTH

1	1 = TIGHT 2 =	LOOSE	3	SHAPE:	1 = FLAT 3 = DOME	2 = SEMI-DOME	ě.		
2	1 = SMOOTH 2 =	KNOBBY							
2 7 DISE	1 = BRIGHT V COLOR: 3 = PURPLE-G	REEN	[1]		AVES IN CURD	2 = LEAVES,IN CURD			
/, DISE	7. DISEASE RESISTANCE: (0 = Not Tested; 1 = Susc., tible, 2 = Resistant. Specify race if known)								
0	BLACK SPOT		0	CLUBROO)T				
0	PHYTOPHTHORA ROO	т пот	0	WHITE BL	ISTER				
0	BLACK ROT		0	воттом	ROT				
0	CERCOSPORELLA LEA	F SPOT	0	DOWNY N	ILDEW				
0	POWDERY MILDEW		0	VERTICIL	LUM WILT				
0	BLACK LEG		0	CAULIFLO	OWER MOSAIC				
0	RING SPOT		0	TURNIP Y	ELLOW MOSAIC				
0	YELLOWS		0	WIRE STE	M				
0	OTHER (Specify)				•				
8. OTHE	R RESISTANCE: (0 = No	ot Tested, 1 = Susceptible, 2 =	Resistant)						
2	"BUTTONING"		0	"BLINDNE	:SS"		•		
2	"RICEYNESS"	en e	0	"WHIPTAI	L"				
0	INSECT (Specify)			 .	4.	e e			
9. DICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:									
	CHARACTER	VARIETY	I I		IABACTED	VABIETY			
MATURI		White Summer	21.44	T COLOR	IARACTER	White Summer	· · · · · · · · · · · · · · · · · · ·		
ADAPTA		White Summer			 	White Summer Oze			
PLANT HABIT OZe			CURD SIZE CURD SHAPE		White Summer	1			
PLANT SIZE OZE			CURD COLOR		White Summer				
REFERENCE: Nieuwhof, M. 1969. Cole Crope – World Crop Series, Leonard Hill.									

COMMENTS:



Exhibit D Additional information Cauliflower White Fox 830003

- 1. White Fox grows less erect than White Summer
- 2. White Fox has more relief on the curd than White Summer
- 3. White Fox is better self-wrapping than White Summer